

Annual Report of Operations for Year ²⁰²¹

To comply with NPDES General Permit No. WAG130000 for Federal Aquaculture Facilities and Aquaculture Facilities Located in Indian Country within the Boundaries of the State of Washington

NPDES # for your Facility:	
WAG130004	
Facility & Owner Information	
Facility Name: Makah National Fish Hatchery	
Operator Name (Permittee): U.S. Fish and Wildlife Service	
Address: P.O. Box 739 / 897 Hatchery Road Neah Bay, WA 98357	
Email: kristin_bates@fws.gov	Phone: 360-645-2521
Owner Name (if different from operator):	
Email:	Phone:
Best Management Practices (BN	MP) Plan
Has the BMP Plan been reviewed this year?	es 🗌 No
Does the BMP Plan fulfill the requirements of the Ge	neral Permit? 📕 Yes 🗌 No
Summarize any changes to the BMP Plan since the la BMP has been updated, staff name change	ast annual report. Attach additional pages if necessary. es have been submitted.

Operations and Production

Total harvestable weight produced in the past calendar year in pounds (lbs): 50,413 lbs

Pounds of food fed to fish during the maximum month:

5,590 lbs - June 2021

List the species grown or held at your facility and the annual production of each in gross harvestable weight. If fish were released rather than harvested, list the weight at time of release.

Species	Fish Produced	Receiving Water(s) to which Fish were Released	Month Released/ Spawned
BY19 Steelhead	128,523	Tsoo-Yess River	4/21 release
BY20 Chinook	942,725	Tsoo-Yess River	5/21 release
BY20 Coho	232,500	Tsoo-Yess River	5/21 release
BY20 Coho Smolt	182,964	Held for release in April 2022	11/20 spawn
BY20 Steelhead	87,394	Held for release in April 2022	12/20 spawn

Fill in the table below with production numbers from the past year. List the **maximum** amount of fish on-site and the maximum amount of food fed **per month**.

Month	Total Fish (lbs)	Fish Feed (lbs)	Month	Total Fish (lbs)	Fish Feed (lbs)
January	19,891	1,840	July	4,752	1,037
February	21,721	2,807	August	6,060	1,852
March	25,764	5,468	September	6,969	2,140
April	31,894	3,663	October	10,604	1,431
May	11,898	3,608	November	12,300	938
June	4,523	5,590	December	13,420	869

Additional Comments:			
*	 		

Solid Waste Disposal

Describe the solid waste disposed of during the calendar year (including fish mortalities).

Type of Solid Disposed	Date Disposed	Location Disposed
Fish Mortalities	4/30/2021	Makah Tribal Dump
Fish Mortalities	8/24/2021	Makah Tribal Dump

Additional Comments:

fish mortalities were bagged and frozen, then disposed of during trash pick-up.

Fish Mortalities

Include a description and the dates of mass mortalities in the past year (more than 5% per week). Attach additional pages, if necessary. Include total mortalities from all causes.

Date	Cause of Deaths	Steps Taken to Correct Problem	Pounds of Fish
4/21-4/30	Coldwater Disease and Trichodina parasite infestation.	10 day Terramycin medicated feed regime and Parasite S (Formalin) static bath	111.5 lbs
8/7-8/24	Chronic coldwater disease and "Ich" (ichthyobodo spp.)	10 day Terramycin medicated feed regime and Parasite S (Formalin) static bath	453 lbs

Additional Comments:

We had two mortality events with our BY20 steelhead fry, fish were treated and mortalities removed over the course of the event. Morts were frozen then disposed of.

Noncompliance Summary

Include a description and the dates of noncomplete steps taken to correct the problems. Attack		he incidents, and
No areas of noncompliance in 2021		
-		

Inspections & Repairs for Production & Wastewater Treatment Systems

Date Inspected	Date Repaired	Description of System Inspected and/or Repaired
Monthly	1x/month	Check serpentine discharge channel, clear downed trees, ensure flow is normal.
Daily	2x/day	Inspect & operate traveling water screens on intake production water.
Daily	2x/day	Check headbox water and tail screen integrity on raceways and indoor start tanks.
Weekly	1-2x/week	Backflush sand filters for incubation and start tank production water.

Aquaculture Drugs and Chemicals

Please indicate whether you used each drug/chemical **during the past calendar year**. Describe the use of each drug/chemical in more detail on the following pages.

Used in the past year?	Drug or Chemical
□ Yes ■ No	Azithromycin
□ Yes ■ No	Chloramine-T: See additional reporting requirements on page 7
■ Yes □ No	Chlorine
□ Yes ■ No	Draxxin
□ Yes ■ No	Erythromycin - injectable
□ Yes ■ No	Erythromycin - medicated feed
□ Yes ■ No	Florfenicol (Aquaflor)
■ Yes	Formalin - 37% formaldehyde: See additional reporting requirements on page 7
□ Yes ■ No	Herbicide - describe:
□ Yes ■ No	Hormone - describe:
□ Yes ■ No	Hydrogen Peroxide: See additional reporting requirements on page 7
■ Yes	Iodine: See additional reporting requirements on page 7
■ Yes □ No	Oxytetracycline
□ Yes ■ No	Potassium Permanganate: See additional reporting requirements on page 7
□ Yes ■ No	Romet
□ Yes ■ No	SLICE (emamectin benzoate)
□ Yes ■ No	Sodium Chloride - salt
□ Yes ■ No	Vibrio vaccine
□ Yes □ No	Other:
□ Yes □ No	Other:

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: NorWeco		Generic Name: Chlorine(Calcium Hypochlorite)	
Reason for use: Water disir	nfection from sockeye i	ncubation	
□ Preventative/Prophylactic ■ As-needed Total quantity of formulated product per treatment (specify units):12.7microliters/L		Total quantity of formulated product used in past year (specify units): 19,092 grams	
Date(s) of treatment: 10/20/21 - 12/27/2021			Total number of treatments in past year: 67 days
Maximum daily volume of treated water: 17,280 gallons/day	Treatment concentration (specify units): 0.5ppm	Duration and frequency of treat 24hrs/day for 67 day	
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
	on about how this chemical was uent, IHNV preventative		evention practices during use:
Brand Name: Terramycin 200 Generic Name: Oxytetracycline			THE RESIDENCE OF THE PROPERTY OF THE PARTY O
Brand Name: Terramycin	200	Generic Name: Oxytetrac	ycline
Torramyon			ycline
Torramyon	200 ortality due to bacterial Total quantity of formulated product per treatment: 37.5 grams		roduct used in past year
Reason for use: Control mo	ortality due to bacterial Total quantity of formulated product per treatment: 37.5 grams	coldwater disease Total quantity of formulated p	roduct used in past year
Reason for use: Control mo	ortality due to bacterial Total quantity of formulated product per treatment: 37.5 grams	coldwater disease Total quantity of formulated p	Total number of treatments in past year: 4 tment(s):
Reason for use: Control mo Preventative/Prophylactic As-needed Date(s) of treatment: 4/30/21, 8/2/21, 8/16/21 (Maximum daily volume of treated water:	Treatment concentration (specify units):	Coldwater disease Total quantity of formulated p (specify units): 256.9 gram Duration and frequency of trea	Total number of treatments in past year: 4 tment(s):
Reason for use: Control mo Preventative/Prophylactic As-needed Date(s) of treatment: 4/30/21, 8/2/21, 8/16/21 (Maximum daily volume of treated water: 1,440,000gallon/day	Treatment concentration (specify units): 3.75g/100lbs fish	Coldwater disease Total quantity of formulated p (specify units): 256.9 gram Duration and frequency of trea 10 day treatment, 42	Total number of treatments in past year: 4 tment(s):
Reason for use: Control mo Preventative/Prophylactic As-needed Date(s) of treatment: 4/30/21, 8/2/21, 8/16/21 (Maximum daily volume of treated water: 1,440,000gallon/day Method of application: Location in facility chemical was used	Treatment concentration (specify units): 3.75g/100lbs fish Static Bath Flow-through	Coldwater disease Total quantity of formulated p (specify units): 256.9 gram Duration and frequency of trea 10 day treatment, 4: Medicated Feed Other (describe): Ponds	Total number of treatments in past year: 4 tment(s): x in 2021
Reason for use: Control mo Preventative/Prophylactic As-needed Date(s) of treatment: 4/30/21, 8/2/21, 8/16/21 (document) Maximum daily volume of treated water: 1,440,000gallon/day Method of application: Location in facility chemical was used (check all that apply): Where did water treated with this chemical go? (check all that apply): Provide any additional informat	rtality due to bacterial Total quantity of formulated product per treatment: 37.5 grams 2 groups treated) Treatment concentration (specify units): 3.75g/100lbs fish Static Bath Flow-through Raceways Incubation building Discharged w/o treatment	Coldwater disease Total quantity of formulated p (specify units): 256.9 gram Duration and frequency of trea 10 day treatment, 4: Medicated Feed Other (describe): Ponds Off-line settling basin Septic System Publicly owned treatment works used and/or special pollution pressure.	Total number of treatments in past year: 4 tment(s): x in 2021 Other (describe):

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static Bath Treatments			
Tank Volume	Liters		
Desired Static Bath Treatment Concentration	μg/L		
Volume of Product Needed	Liters Product		
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: Active Ingredient: Specify Units		
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units		
Maximum % of Facility Discharge Treated	% of Total Discharge		

Chlorine Flow-Through Treatments				
Tank Volume	640	Liters		
Calculated Flow Rate	48	Liters/Minute		
Duration of Treatment	67 days total =96,480 minutes	Minutes		
Desired Flow-Through Treatment Concentration of Product	12.7	μg/L		
Amount of Product to Add Initially	48L/minute	Liters Product		
Amount of Product to Add During Treatment	3.7	mL/Minute		
Total Volume of Product Needed	363.7L (73% activeingredient)	Liters Product		
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 17,280 gallons/day Active Ingredient: 5.4L/day	Specify Units		
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	5,760,000 gallons/day	Specify Units		
Maximum % of Facility Discharge Treated	.000000234	% of Total Discharge		

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Parasite S		Generic Name: Formalin (37%)	
Reason for use: Control of Fungus During Incubation			
■ Preventative/Prophylactic ■ As-needed	Total quantity of formulated product per treatment (specify units): 750ml	Total quantity of formulated p	roduct used in past year 202.8 gallons)
Date(s) of treatment: 1/1/2021 - 12/31/2022	2		Total number of treatments in past year: 159
Maximum daily volume of treated water: 1380 gallons	Treatment concentration (specify units): 150ppm	Duration and frequency of treat 15 minutes 5x/week	
Method of application:	☐ Static Bath ☐ Flow-through	☐ Medicated Feed☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ☐ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment☐ Settling basin☐	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional information about how this chemical was used and/or special pollution prevention practices during use: Eggs are treated while in incubation 5x/week January-March and September-December			
Eggo aro troatoa willio	, in moderation ox, week		
Brand Name: Parasite S	in medbation extweek	Generic Name: Formalin	
Brand Name: Parasite S	100	Generic Name: Formalin	
Brand Name: Parasite S	arasite Management in Total quantity of formulated product per treatment: 150 ul/l	Generic Name: Formalin	(37%) roduct used in past year
Brand Name: Parasite S Reason for use: External Parasite Preventative/Prophylactic	arasite Management in Total quantity of formulated product per treatment:	Generic Name: Formalin Raceway Units Total quantity of formulated p	(37%) roduct used in past year
Brand Name: Parasite S Reason for use: External Parasite S Preventative/Prophylactic As-needed Date(s) of treatment: 7/14/21 and 7/30/21 Maximum daily volume of	arasite Management in Total quantity of formulated product per treatment: 150 ul/l	Generic Name: Formalin Raceway Units Total quantity of formulated p	(37%) roduct used in past year Total number of treatments in past year: 2
Brand Name: Parasite S Reason for use: External Parasite S Preventative/Prophylactic As-needed Date(s) of treatment: 7/14/21 and 7/30/21	arasite Management in Total quantity of formulated product per treatment: 150 ul/l	Generic Name: Formalin Raceway Units Total quantity of formulated p (specify units): 4.3 galloms	(37%) roduct used in past year Total number of treatments in past year: 2 tment(s):
Brand Name: Parasite S Reason for use: External Parasite S Preventative/Prophylactic As-needed Date(s) of treatment: 7/14/21 and 7/30/21 Maximum daily volume of treated water:	arasite Management in Total quantity of formulated product per treatment: 150 ul/l Treatment concentration (specify units):	Generic Name: Formalin Raceway Units Total quantity of formulated p (specify units): 4.3 gallons Duration and frequency of treat	(37%) roduct used in past year Total number of treatments in past year: 2 tment(s):
Brand Name: Parasite S Reason for use: External Parasite S Preventative/Prophylactic As-needed Date(s) of treatment: 7/14/21 and 7/30/21 Maximum daily volume of treated water: 16,000	arasite Management in Total quantity of formulated product per treatment: 150 ul/l Treatment concentration (specify units): 150 ul/l	Generic Name: Formalin Raceway Units Total quantity of formulated p (specify units): 4.3 galloms Duration and frequency of treat 1x static bath for 1h	(37%) roduct used in past year Total number of treatments in past year: 2 tment(s):
Brand Name: Parasite S Reason for use: External P Preventative/Prophylactic As-needed Date(s) of treatment: 7/14/21 and 7/30/21 Maximum daily volume of treated water: 16,000 Method of application: Location in facility chemical was used	arasite Management in Total quantity of formulated product per treatment: 150 ul/l Treatment concentration (specify units): 150 ul/l Static Bath Flow-through	Generic Name: Formalin Raceway Units Total quantity of formulated p (specify units): 4.3 gallons Duration and frequency of treat 1x static bath for 1hi Medicated Feed Other (describe):	roduct used in past year Total number of treatments in past year: 2 tment(s): r (2 times in 2021)

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Static Bath Treatments	
Tank Volume	Liters
Desired Static Bath Treatment Concentration	μg/L
Volume of Product Needed	Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: Active Ingredient: Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units
Maximum % of Facility Discharge Treated	% of Total Discharge

Formalin (3790) Flow-	Through Treatments Incubation	1
Tank Volume	6900 L	Liters
Calculated Flow Rate	4 gpm	Liters/Minute
Duration of Treatment	15 minutes	Minutes
Desired Flow-Through Treatment Concentration of Product	2000	μg/L
Amount of Product to Add Initially	13	Liters Product
Amount of Product to Add During Treatment	30.2	mL/Minute
Total Volume of Product Needed	13.495	Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 3.37 gallons Active Ingredient: 1.25 gallons	Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	5,760,000 (4000 gallons/min)	Specify Units
Maximum % of Facility Discharge Treated	.000000585	% of Total Discharge

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Formalin (3790) Stat	ic Bath Treatments Raceways	
Tank Volume	32,000 (8000 gallons)	Liters
Desired Static Bath Treatment Concentration	150	μg/L
Volume of Product Needed	2.3 gallons (9.2 L)	Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 16,000 gallons Active Ingredient: 0.851 gallons (37%)	Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	5,760,000 gallons/day	Specify Units
Maximum % of Facility Discharge Treated	.0028	% of Total Discharge

Flow-Through Treatments		
Tank Volume	Liters	
Calculated Flow Rate	Liters/Minute	
Duration of Treatment	Minutes	
Desired Flow-Through Treatment Concentration of Product	μg/L	
Amount of Product to Add Initially	, Liters Product	
Amount of Product to Add During Treatment	mL/Minute	
Total Volume of Product Needed	Liters Product	
Maximum Effluent Concentration of:	Solution:	
1) Solution and 2) Active Ingredient	Active Ingredient: Specify Units	
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units	
Maximum % of Facility Discharge Treated	% of Total Discharge	

Aquaculture Drugs and Chemicals (cont'd)

Describe all drug and/or chemical treatments that occurred during the year. Fill out the information below for each drug or chemical, plus page 7 for water-borne treatments. Attach additional pages as necessary.

Brand Name: Ovadine		Generic Name: lodine (1%)	
Reason for use: Egg Disinfection			
☐ Preventative/Prophylactic ☐ As-needed	Total quantity of formulated product per treatment (specify units): 2.240Z	Total quantity of formulated p (specify units): 1108.8 o	roduct used in past year z (8.67 gallons)
Date(s) of treatment: 10/13, 10/14, 10/27, 11/10, 11/23, 12/10, 12		/22/2022	Total number of treatments in past year:
Maximum daily volume of treated water: 1050 gallons	Treatment concentration (specify units): 50ppm	Duration and frequency of treat 1hr static bath after	
Method of application:	■ Static Bath □ Flow-through	☐ Medicated Feed ☐ Other (describe):	
Location in facility chemical was used (check all that apply):	☐ Raceways ■ Incubation building	☐ Ponds ☐ Off-line settling basin	☐ Other (describe):
Where did water treated with this chemical go? (check all that apply):	☐ Discharged w/o treatment ☐ Settling basin	☐ Septic System ☐ Publicly owned treatment works	☐ Other (describe):
Provide any additional information about how this chemical was used and/or special pollution prevention practices during use: Eggs are water hardened in 50ppm ovadine for 1 hour after fertilization			
Brand Name:		Generic Name:	
Brand Name: Reason for use:		Generic Name:	
	Total quantity of formulated product per treatment:	Generic Name: Total quantity of formulated p (specify units):	roduct used in past year
Reason for use:		Total quantity of formulated p	roduct used in past year Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed		Total quantity of formulated p	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of	product per treatment: Treatment concentration	Total quantity of formulated p (specify units):	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water:	Treatment concentration (specify units):	Total quantity of formulated p (specify units): Duration and frequency of treat Medicated Feed	Total number of treatments in past year:
Reason for use: Preventative/Prophylactic As-needed Date(s) of treatment: Maximum daily volume of treated water: Method of application: Location in facility chemical was used	Treatment concentration (specify units): Static Bath Flow-through	Total quantity of formulated p (specify units): Duration and frequency of treat Medicated Feed Other (describe):	Total number of treatments in past year: ment(s):

- If a water-borne treatment was used during the calendar year, Permittees must include detailed records/calculations as an attachment to this Annual Report in order to demonstrate how the maximum effluent concentrations of solution and active ingredient were calculated for each chemical.
- EPA recognizes that water-borne treatments may vary in the volume of the vessels treated, concentration, quantity of product, etc. Permittees must provide the information listed in the following tables for a reasonable worst case (i.e., maximum effluent concentration) scenario, not for each individual treatment.
- Permittees must submit this information and calculate the maximum effluent concentration for each water-borne chemical used during the past calendar year.
- See also Appendix D for the Chemical Log Sheet.

Iodine (Incubation) Static Bath Treatments		
Tank Volume	20 L (5 gallons)	Liters
Desired Static Bath Treatment Concentration	1:200 (5ml/L)	μg/L
Volume of Product Needed	.66	Liters Product
Maximum Effluent Concentration of: 1) Solution and 2) Active Ingredient	Solution: 3.67 gallons Active Ingredient: 0.367 (1% iodine)	Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	5,760,000 gallons/day	Specify Units
Maximum % of Facility Discharge Treated	.000000637	% of Total Discharge

Flow-Through Treatments	
Tank Volume	Liters
Calculated Flow Rate	Liters/Minute
Duration of Treatment	Minutes
Desired Flow-Through Treatment Concentration of Product	μg/L
Amount of Product to Add Initially	Liters Product
Amount of Product to Add During Treatment	mL/Minute
Total Volume of Product Needed	Liters Product
Maximum Effluent Concentration of:	Solution:
1) Solution and 2) Active Ingredient	Active Ingredient: Specify Units
Minimum Volume of Total (treated + untreated) Water Discharged from the Facility per day	Specify Units
Maximum % of Facility Discharge Treated	% of Total Discharge

Changes to the Facility or Operations

Describe any changes to the facility or operations since the last annual report.		
No Changes in 2021.		
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Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name of person signing	Title
Kristin Bates	Hatchery Manager
Applicant Signature KRISTIN BATES Digitally signed by KRISTIN BATES Date: 2022.01.19 20:34:27 -06:00	Date Signed 1/19/2022

Submittal Information

Send the complete, signed information, along with any attachments, to the following address:

U.S. EPA Region 10, OWW-191 Washington Hatchery Annual Report 1200 Sixth Avenue, Suite 900 Seattle, WA 98101-3140